### FIELD EXPLORATION PROGRAM

A field investigation performed on June 6 and 7 consisted of drilling and logging five borings to depths ranigng from 15 to 50-feet. The borings were drilled with an 8-inch hollow-stem auger rig owned and operated by Exploration Geoservices. The approximate locations of the borings are shown on Figure 2. Drive samples were obtained using either a Modified California Sampler (2-inch inside diameter) or a Standard Split-Spoon Sampler (13%-inch inside diameter).

Preliminary soil classifications were made in the field in accordance with the Unified Soil Classification System, as shown on Figure A-1, and were verified by further examination of the samples in the laboratory and by testing. Figure A-2 presents a Log of Boring Legend of the borings along with sample locations and in situ test results are presented in this Appendix. Logs of the borings were prepared based on the field and laboratory test data and are presented in Figures A-3 through A-7.

# LABORATORY TESTING

Relatively undisturbed soil samples were carefully packaged in the field and sealed to prevent moisture loss. The samples were then transported to our San Jose laboratory for examination and testing. Laboratory tests were performed on selected samples as an aid in classifying the soils and to evaluate the physical properties of the soils. Detailed descriptions of the laboratory tests are presented below under the appropriate test headings. Test results are presented in the figures that follow.

## **Moisture Content and Dry Density**

Moisture content and dry density determinations were made on selected samples. The samples were first trimmed to obtain volume and wet weight, and then were dried in accordance with ASTM D2216 and D2937. After drying, the weight of each sample was measured, and moisture content and dry density were calculated. The results of the individual tests are presented in the Log of Boring sheets.

# **Unconfined Compressive Strength**

The unconfined compressive strength was estimated for selected samples. These tests were performed in accordance with ASTM D2166. The axial load applied was measured with a load cell at an axial strain rate of 1.0 percent per minute. Loading was continued until the axial load reached a peak value. The results of these tests are shown in the Log of Boring sheets.

## Plasticity Index

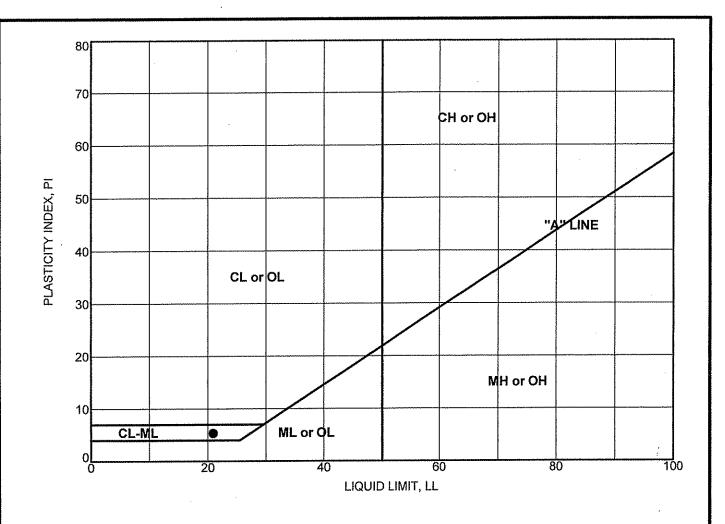
Plasticity characteristics of the near surface native soil were determined for one selected sample by performing Liquid Limit and Plastic Limit tests generally in accordance with ASTM test method D4318. The results of these tests are presented on Figure A-8.



#### **R-Value**

An R-Value test was performed on a sample representative of the near surface soils. The test was performed in accordance with the Caltrans Test Designation 301. The test results are shown on Figure A-9.





Boring Number	Sample Number		Test Symbol	Moisture Content (%)	LL	PL	ΡI	Description
B-1	1	2	•	10	21	16	5	Sandy, silty CLAY (CL-ML)
								,
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			-		ļ			
				-	<b> </b>			
					<u> </u>			
			-					
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					<b>-</b>			
					<b></b> -			
					<b></b>			

Project: Fire Station #36
Project Number: 28649866

PLASTICITY CHART
Figure A-1

Fire	Stat	ion #36; San Jose, Cali	torni	a					GPOI	חואו	SHE	ACE	FLEV/	ATION (	ft)·	
BORIN	G LOCA	ATION:							TOP (	OF W	ELL	CASI	NG ELI	EVATIO	N (ft):	
DRILLII AGENC	NG CY		DRILLE	ER .					DATE DATE	FIN	ISHE	D:				
DRILLII EQUIPI	NG		<u></u>						COMP DEPT	PLET HS	ION	E	WELL:	G: 45.0 : (ft)	(ft)	
DRILLI	NG	(as noted)	DRILL	BIT					HAMN			(as n	oted)			
METHO SIZE A	ND TYP								NUME		OF	DIST	. U	NDIST:		
OF CAS	)F		FRO	·M	TO				WATE	R	1	RST:	Δ.	COMPL.	. ¥.2	4 hr.:
PERFC	RATIO		FRO		TO				DEPT					CH	HECKED	
SIZE A OF PAG	CK		TO	'IVI	TYF	oF.			BY FR	Тто	1			B		
TYPE SE.		No. 1:	No. 3	:									LO		LEGE	ND
3E.	AL.	No. 2:	No. 4	:	FIE	ELD T	EST	S.		SA	MPL	ES	INDE		et 1 of 1) PERTIES	
DEPTH (feet)	SOIL GRAPHIC	MATERIAL DESCRIPTION	·	ELEVATION (feet)	ŒN		STRAIN AT FAILURE,%		DEPTH (feet)	NUMBER TYPE	RECOVERY (%)	BLOWS /foot	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	NOTES
	·	Arrow denotes bottom of	fill layer													
5 _	•	51mm inside diameter Modified California sample							5- -							
- - 10 -	•	51mm outside diameter Standard Spoon sample (Standard Penetra Test)	Split tion						10-							
1		76mm outside diameter Shelby to sample	be						- 15—				**************************************			
15 — - - -	.,	Hydraulic Pressure required to pu Shelby tube sampler	ısh		- Andrews - Andr	L	-		-		and the same of th	2400 kPa		**************************************		
20 — - -		Blow count with 64kg falling 0.76 for 0.3 meters of penetration	meters		The state of the s				20 - - -			29	A THE RESERVE THE PROPERTY OF			,
25 — -		Blow count with 64kg hammer fal 0.76 meters for 127mm of penetra	ling ation						25 -			50/ 127m	Management of the second	Administrative water process with a second	·	
30 —	and the second s	Groundwater level at time o	f drilling		ALL DELL'ANNIANT OF T		***************************************		30-		ALL DAY OF THE PROPERTY OF THE	WWW SEEDWINDS STOPPED				
35 —		Groundwater at a time after dr	ecified)	·			***************************************		35-	Para management and the second			*			1
-		PP= Pocket Penetrometer reading in ki (kilopascals)		***************************************	3.0											PP=300 kPa LL=42 PI=21
40		LL= Liquid Limit (%) PI= Plasticity Index (%) NOTE: PI= LL - (Plastic Limit [%]) +#4= Percentage of material retained sieve -#200= Percentage of material passing sieve		terinion and the second	***************************************	***************************************			40-	A CONTRACTOR OF THE CONTRACTOR		***************************************				+#4=13% -#200=10%
	1	JRS .		.1				PRC	JECT	NO	. 28	6498	66		Figure	: A-2

		ion #36; San Jose,	Cal	ITO	rnı	a		4-4			GRO	JND	SURF	ACE	ELEV	ATION (	ft):	
BORING DRILLING					RILLE		locor				DATE	STA	<b>NRTE</b>	D:	6/7/07	EVATIO	N (11):	
AGENCY	<u> </u>	Exploration Geoservices, Inc.	<u>-</u>	-   0	MILLE	<u></u>	Jasor				DATE	PLET			6/7/07 30RIN	G: 50.0 : N/A (ft)	(ft)	
EQUIPM	ENT	Mobile B-53		<del></del>				···			DEPT HAMN	HS				N/A (ft)	) `	
DRILLING METHOD	)	Hollow Stem Auger		D	RILL	BIT 8	inch				DROP	·			/30in			
SIZE ANI OF CASI	ING			<del></del> -							NUME			DIST:		NDIST:	₩.	
TYPE OF PERFOR	F RATION	N/A			FRO	M N	I/A T	0 1	1/A		WATE	H (ft)	·	RST: I		COMPL.	1-01/55	4 hr.: N/A
SIZE AN	D TYP K	E N/A			FRO	M N	I/A T		1/A		LOGO	·		rtega		B)	ECKED	J.Landazuri
TYPE		TYPE No. 1; Cement	FR 0	TO 15'	No. 3	: N/A	TY	PE			FR N/A	TO N/A	·····•	ı	_OG	OF I	30RIN	G B1
SEA	.i J	No. 2: N/A	N/A	N/A	No. 4	: N/A	I cu	ELD 1	ECT	e l	N/A	N/A	MPL		INDE	(She	et 1 of 2) PERTIES	
DEPTH (feet)	SOIL GRAPHIC	MATERIA DESCRIPTI	NC			ELEVATION (feet)	POCKET PEN	Ι. Ι	AT :,%	WATER 0	DEPTH (feet)		FRY FRY		1 <b>1</b> 1.		UNCONFINED COMPRESSIVE STRENGTH (psf)	NOTES
		Sandy, Silty CLAY (CL-ML) w Very dense, moist, dark brow	ith grav	<b>vel</b> grave			middler.	***************************************	2.3				100	53	10	127	13400	LL=21 PI=5
5 —									6,6		5	2///	100		17	113	8350	
		Gravelly lean CLAY (CL)				The second section of the sect	market Apple 20 Apple		8.0			3 4	100	50/3" 70	20	110	3160	L. I. L.
10 — - -		Gravelly lean CLAY (CL) Stiff, moist, brown				- a democrative travel	L. Commission of the Commissio		ADVANÇA ATTINITATION OF THE PARTY OF THE PAR		10		PARTITION OF THE PARTIT	• ************************************	- A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A	- A		1 - A-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C
- 15 — - -											15-	5	50	50/6	7	124		
20 —		Well-graded SAND (SW) with Very dense, moist, brown, litt	gravel le fines						A CATALONNIA MANAGEMENT AND A		20-	6	70	50/6	Wy	TO A POWER AND THE STATE OF THE		
	e as a	RS						_L	<u> </u>	PRO	JECT	NO	. 28	6498	66		Figure	: A-3

Fire San	Stat Jose	ion #36 e, California									Cor	ntinued	BORIN - Sheet 2 c	
DEPTH (feet)	SOIL GRAPHIC	MATERIAL DESCRIPTION	ELEVATION (feet)	POCKET PEN (tsf)	POCKET TV TT (psf)		DEPTH (feet)		RECOVERY S	1	<b>U</b>		UNCONFINED TO COMPRESSIVE TO STRENGTH TO (PSf)	NOTES
		Well-graded SAND (SW) with gravel Very dense, moist, brown, little fines	***************************************						**************************************	THE PARTY OF THE P				·
30 —		Lean CLAY (CL) Stiff, moist, brown, few gravels	Transport of the section of the sect	The state of the s			30	8	100	32				
35 - - -		Well-graded SAND (SW) with gravel Very dense, moist, dark brown, little fines	* The second sec	ATT TO THE TAXABLE AND THE TAX	The second secon		35-	9	50	50/5	46.4.5.0. White proposed and the second seco			
40  		Lean CLAY (CL) Hard, moist, brown	- Marie and American	edirinumentarine e e e e e e e e e e e e e e e e e e		5.3	40	10	100	54	16	115	18450	
45 — - -		Few medium to coarse sands		and a management of the second			45		100	50/5	The second secon	**************************************		
50 — - -	* * * * * * * * * * * * * * * * * * *	Silty SAND (SM) Very dense, moist, light brown, traces of gravels  BOTTOM OF BORING AT 50 FEET Boring dry ATD	The state of the s	The state of the s			 - <del>50</del> - - -	12	80	50/5				
55 —		<b>TRS</b>	A A A A A A A A A A A A A A A A A A A				55			3640	866		Figure	· A-3

Fire	Stat	ion #36; San Jose, (	Salitorn	<u>a</u>					000	18.175	et lei	- A OF	FLEV	ATION (	44\.	
BORIN	G LOCA	TION:							TOP (	OF W	ELL	CASI	NG ELI	EVATION	π): N (ft):	
DRILLI AGEN	NG CY	Exploration Geoservices, Inc.	DRILL	ER	Jasor	1			DATE DATE	FIN	ISHE	D:	6/6/07 6/6/07			
DRILLI EQUIP	NG	Mobile B-53							COMP	PLET HS	ION	E	WELL:	3: 30.0 : N/A (ft	(ft) )	
DRILLI METH	NG OD	Hollow Stem Auger	DRILL	. BIT 8	inch				HAM! DROP			140lb	/30in			
	ND TYP	E							NUME SAME			DIST:		NDIST:		
	OF DRATIO	N/A	FRO	A MC	I/A T	1 0	1/A		WATE DEPT	ER H (ft)	FIF	RST: I	V/A Z	COMPL		4 hr.: N/A
I	ND TYP	······································	FR	A MC	I/A T	0 1	J/A		LOGO BY	BED	E.O	rtega	l	Cł B)	HECKED (	J.Landazuri
ļ	E OF		FR TO 0 30' No.	3: N/A	TY	PE			FR N/A	TO N/A		1	റദ	OF I	BORIN	G B2
	AL	No. 1: Cement   No. 2: N/A   I		4: N/A					N/A	N/A	~			(She	et 1 of 2)	
DEPTH (feet)	SOIL	MATERIAL DESCRIPTIO		ELEVATION (feet)	POCKET PEN (tsf)	POCKET TV C	AT %	WATER 09	DEPTH (feet)		RECOVERY ST				UNCONFINED TO COMPRESSIVE TO STRENGTH TO (psf)	NOTES
		Sandy, Silty CLAY (CL-ML) Stiff, dry, dark brown, with some roots	gravel, with	***************************************		- WAS MANUFACTURE OF THE STATE			_	1 / 2	75 50	42 50/5	8	110		
5 -		Clayey SAND (SC) Very dense, moist, dark brown, gravel	with some		**************************************	A. A			5	3 4	60	50/5'	14	102		A
10				· · · · · · · · · · · · · · · · · · ·	To the state of th				10		SANOVALA INTERNATIONAL AND	and a control of the				
15 -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Poorly graded SAND (SP) with Very dense, moist, dark yellow	gravel brown	The state of the s	· · · · · · · · · · · · · · · · · · ·				15-	5	80	50/6	work-domination has all your dept-dominate in the	mu publicum mekik munya PAA-AAAAAAAA munya PAA-AAAAAAA		
20				- A CALLES AND					20-	6	80	50/5		The Property of the Property o		
-		IRS		i	1		<u> </u>	PRO	JECT	NO.	. 28	⊥ 6498	66	<u> </u>	Figure	: A-4
1																

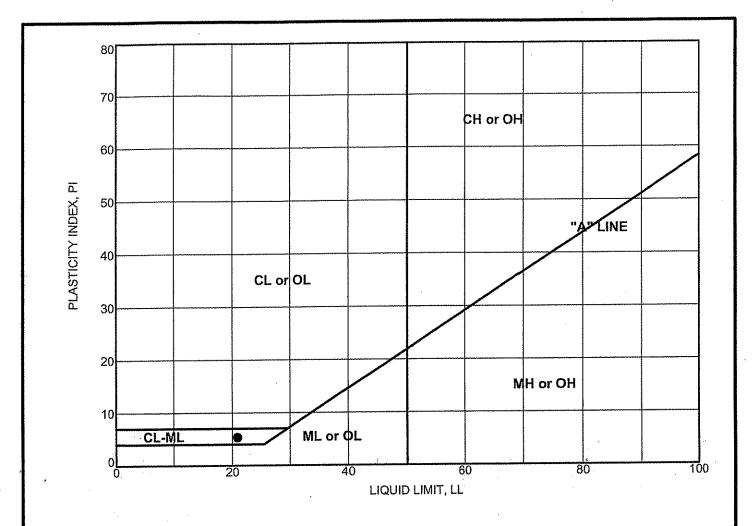
Fire San	Stat	ion #36 e, California										Cor	ntinued-	BORIN Sheet 2 o	
DEPTH (feet)	SOIL GRAPHIC	MATERIAL DESCRIPTION	ELEVATION (feet)	-	POCKET TV TT (psf)			DEPTH (feet)		RECOVERY ST	******		DRY DENSITY d (pcf)	UNCONFINED TO COMPRESSIVE TO STRENGTH TO (psf)	NOTES
ven	0 0 0	Poorly graded SAND (SP) with gravel Very dense, moist, dark yellow brown		ANALYS AND ANALYS ANALYS AND ANALYS AND ANALYS AND ANALYS AND ANALYS AND ANALYS ANALYS AND ANALYS ANALYS AND ANALYS AND ANALYS AND ANALYS AND ANALYS AND ANALYS AND A	envire de contraction de la co			lant.							
30 —		BOTTOM OF BORING AT 30 FEET Boring dry ATD	Waterials Africa III .	The second secon				- <del>30</del>	8	30	\$0/5.5	В		·····	
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40 -	To the state of th			The state of the s		WANTED TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE T	Westerstate	40	ALL AND DESCRIPTION OF THE PROPERTY OF THE PRO						
	- Transmission of the state of							***	***************************************	миштинашим	·	A SALA A A A A A A A A A A A A A A A A A	eliteteken kan kan kan kan kan kan kan kan kan ka	The state of the s	-
45 - -				HERONALDON TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TOT				45 - -	**************************************		and the same of the state of the state of the same of	and the second s	A A A A A A A A A A A A A A A A A A A		
50 -				eretekanonaliisestete pro-re				50-	***************************************		a a salanin sa			12. 1. 14444-1000/41-10111111111111111111111111	
	-		To the state of th	- A-Comment of the Comment of the Co							HEALIHAMMANAMANAMANAMANAMANAMANAMANAMANAMANAM		ACCUPATION OF THE PROPERTY OF		
55 -	-		Page 1997	PACATE INTO THE PACATE INTO TH	- DOWNSHIP WOOD			55		Managara and American	**************************************	W. William		To the state of th	
	T	JRS .		1		F	PRO	JECT	l No	). 28	1 3649	866	1	Figure	: A-4

		ion #36; San Jose, Ca	morr	ııa -					GRO	JND	SUR	FACE	ELEV	ATION I	(ft):	
BORING DRILLI			T DDII	1 [77]					DATE	ST.	ARTE	D:	6/6/07	EVATIC	N (ft):	······································
AGENC	Y	Exploration Geoservices, Inc.	DRIL	LEK	Jaso	n 			DATE COM	LET			6/6/07 30RIN	G: 30.0	(ft)	
DRILLIN EQUIP	~~~	Mobile B-53							DEPT	HS			WELL	: N/A (ft	<u>)</u>	
DRILLI METHO	D	Hollow Stem Auger	DRIL	LBIT 8	3 inch				DROP	>			o/30in			
OF CAS		†*************************************							NUME		<u> </u>	DIST		NDIST:		4
TYPE C PERFO	RATIO	N/A	FF	OM I	V/A .	ГО	WA.		WATE	H (ft	<u>/</u>	RST:	·	COMPL	) COLUCIO	24 hr.: N/A
SIZE AT OF PAC	ND TYP	19/73		OM I			WA.		LOGG			rtega	}	B		J.Landazuri
TYPE		TYPE         FR           No. 1: Cement         0	TO   30' No	, 3: N/A	TY	PE			FR N/A	TC N/A	<b></b> f	ļ	_OG	OF I	BORIN	G B3
SE,	AL	No. 2: N/A N/A	N/A No	. 4: N/A	I FI	ELD.	TEST	S	N/A	N/A	MPL	ES	INDE		et 1 of 2) PERTIES	
DEPTH (feet)	SOIL GRAPHIC	MATERIAL DESCRIPTION		ELEVATION (feet)	POCKET PEN	XET TV	<b>⊢</b> %		DEPTH (feet)		<b> </b> >	Π	MOISTURE CONTENT (%)		UNCONFINED COMPRESSIVE STRENGTH (psf)	NOTES
		Sandy, Silty CLAY (CL-ML) Stiff, moist, dark brown								1///	90	45	7			
5 —		Very stiff			A CONTRACTOR OF THE PROPERTY O				5	2 3	90	50/4' 50/5.8	15	116		
		Poorly graded SAND (SP) with gra Very dense, moist, dark brown, littl	vel e fines						-	4//	90	50/6	5			
10 — - -				ALL-STREET, STREET, ST		ABANTTURA	**************************************		10-	5	50	50/6				
- 15 -		Sandy, Silty CLAY (CL-ML) Very dense, moist, dark brown, sat mixture with some gravel	nd-silt		AND THE PARTY OF T	- AAA - AAA AAA AAA AAA AAA AAA AAA AAA	THE THE PARTY AND A CONTRACT OF THE		15	6	80	50/3				
20		Poorly graded SAND (SP) with gra Very dense, moist, light brown  Lean CLAY (CL) with gravel  Very stiff, moist, brown	vel		Commence of the Commence of th	16.	eanicate proprieta martina de la companya de la com		20-	7 8	ne managament ti	50/5.				
_	T	JRS					    F	PRO	JECT	NO	. 28	6498	66	1	Figure	 :: A-5

Fire San	Stat	ion #36 e, California										Cor	ntinued	BORIN - Sheet 2 o	
DEPTH (feet)	SOIL GRAPHIC	MATERIAL DESCRIPTION	ELEVATION (feet)	POCKET PEN (tsf)	POCKET TV	STRAIN AT FAILURE, %	WATER 09	DEPTH (feet)	NUMBER S	RECOVERY W	BLOWS (5) /foot	MOISTURE Z CONTENT Q (%)	DRY DENSITY d (pd)	UNCONFINED TO COMPRESSIVE TO STRENGTH TO (Psf)	NOTES
-		Lean CLAY (CL) with gravel Very stiff, moist, brown						-		renninterversing de la description de la descrip	and the second s		•		
-		Silty, clayey SAND (SC-SM) with gravel Very dense, moist, dark brown	_					-30	9	30	50/5'				
30 - -	*	BOTTOM OF BORING AT 30 FEET Boring dry ATD						-			The state of the s	THE			
- 35 -								35-			WHOMEHAMAN PT - 10.7 T - 7.7				
-			Add and additional to proper or					-		ASSISTANT TO THE PERSON OF THE					
40 -						***************************************		40-			***************************************				
	-		au south teast west over the season of	AAA			**************************************	-					The state of the s		
45 -					,			- 45-				**************************************			
			V-t-ca-vittimus-k-y				~		-					ALAN MANAGEMENT AND	·
50 -								50-		AA4 + AAAAAAAAA AA AAAAA AA AAAAA AA AAAAA AAAA					
	-		***************************************							THE PROPERTY OF THE PROPERTY O					
55 -								55- -	-				***************************************		
		JRS				 	PRO	JECT	r NC	). 28	649	866		Figure	: A-5

BORING		ion #36; San Jose, Cal TION:							GRO TOP	UND OF V	SUR! /ELL	FACE CASI	ELEV NG ELI	ATION EVATIO	(ft): DN (ft):	
DRILLING AGENCY	 G /	Exploration Geoservices, Inc.	DRILLI	ER	Jasor	٦			DATE	ST	ARTE	D:	6/6/07 6/6/07			
DRILLING EQUIPMI		Mobile B-53							COM	PLET				G; 15.0 : N/A (ft	(ft) )	
DRILLING METHOD	G	Hollow Stem Auger	DRILL	BIT 8	inch				HAM! DRO	MER	1	*********	o/30in		<u> </u>	
SIZE ANI	D TYP	Alleria annua de la companio del companio de la companio del companio de la companio del la companio de la companio del la companio de la com							NUM SAM	BER PLES	OF	DIST	: U	NDIST:		
TYPE OF PERFOR		J N/A	FRC	M M	I/A T	0 1	V/A		WAT! DEP1			RST:	N/A 💢	COMPL	.: N/A ¥:	4 hr.: N/A
SIZE ANI			FRC	M M	I/A T	0 1	V/A		LOG(		~~~~~~	rtega	3	CI	HECKED	J.Landazuri
TYPE	OF	TYPE FR	ТО		TYI	PE			FR	ТС	_					~ D4
SEA	1		15' No. 3 N/A No. 4			***************************************			N/A N/A	N/A N/A			LOG		BORIN et 1 of 1)	G B4
DEPTH (feet)	SOIL GRAPHIC	MATERIAL DESCRIPTION  Sandy lean CLAY (CL) with gravel Very stiff, moist, dark brown	·	ELEVATION (feet)	POCKET PEN (tsf)	POCKET TV F	STRAIN AT FAILURE,%		DEPTH (feet)		RECOVERY 5	T		DENSITY DENSITY DENSITY	UNCONFINED TO COMPRESSIVE XI STRENGTH TO (psf)	NOTES
- 2		Verý stiff, moist, ďark brown			TO THE PROPERTY OF THE PROPERT			·		NIIA K	100	22	11	117	6860	
5									5- - -	3 1	100 80	70	13	117	11620	
10 — 1		Silty SAND (SM) Very dense, moist, light brown, fine sa traces of gravels	and,						10	4	100	46				
15		Sandy lean CLAY (CL) Very stiff, moist, dark brown, with som gravels and sands  BOTTOM OF BORING AT 15 FEE Boring dry ATD	·········		The same of the sa				- <del>15</del> -	5	80	50/5'				
20 -									- 20- - -							
	T	JRS .		I	J	<b></b>	F	PRO	JECT	NO	. 286	498	66		Figure	: A-6

Fire	Stat	ion #36; San Jose, (	Salit	ornia			****										<del> </del>
BORIN	IG LOCA	TION:								TOP (	OF V	VELL	CASI	NG EL	ATION ( EVATION	(ft): )N (ft):	
DRILLI AGEN	NG CY	Exploration Geoservices, Inc.		DRILL	ER	Jaso	n			DATE DATE	FIN	IISHE	D:	6/6/07 6/6/07			
DRILLI EQUIP	NG	Mobile B-53				***************************************				COMI	PLET HS	ION		BORIN WELL	G: 15.0 : N/A (fi	(ft)	
DRILLI METH		Hollow Stem Auger		DRILL	BIT 8	inch				HAMI		<i>f</i>	***********	b/30in			
	ND TYP	E					***************************************			NUME		OF	DIST	: U	NDIST:		
	OF ORATION	ı N/A	***************************************	FRO	M MC	V/A 7	го	N/A		WATE			RST:	N/A ∑	COMPL	.: N/A	24 hr.: N/A
SIZE A	ND TYP	····		FRO	M MC	V/A	го	N/A		LOGG			rtega	<del>-</del>	C B	HECKED	J.Landazuri
OF PA	E OF	TYPE	FR	то		TY				FR	TC						
	AL	No. 1; Cement No. 2; N/A	0 N/A	15' No.	3: N/A 4: N/A					N/A N/A	N/A	······	ı	LOG		BORIN( et 1 of 1)	G B5
		100.2.(11)	14,71	1000	1	FI	ELD.	TEST	S	1 1 1		MPL	ES	INDE		PERTIES	
DEPTH (feet)	SOIL GRAPHIC	MATERIAL DESCRIPTIO			ELEVATION (feet)	POCKET PEN (tsf)	POCKET TV (psf)	STRAIN AT FAILURE,%	Water Level	DEPTH (feet)	NUMBER TYPF	RECOVERY (%)	BLOWS foot	MOISTURE CONTENT (%)	DRY DENSITY (pdf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	NOTES
		SILT (ML) Medium dense, moist, dark bro sand and gravels	own, tra	ace						_	1/1	100	25	14	118		
- 5			ravel			:				5-	2	100	46				
		(			***************************************						3	100	34	20	108	7070	
10 -	The state of the s	Small layers of mostly sand a	na iine	gravei	The state of the s	POPULATION AND THE POPULATION AN	www.	**************************************		10	4		36				
		Silty SAND (SM) Very dense, moist, dark brown	, some (	gravels		***************************************				-	5	90	56				
15 -		BOTTOM OF BORING AT Boring dry ATD	15 FEE	т						-15 -			-				
 20										20-	***************************************						
-	The second secon								on the state of th	_	Harmon	***************************************	***************************************				
			<u>.</u>							-							
	Ţ	JRS						F	RO	JECT	NO.	2864	986	6		Figure:	A-7



Boring Number	Sample Number		Test Symbol	Moisture Content (%)	LL	PL	ΡI	Description
B1	1	2	•	10	21	16	5	Sandy, silty CLAY (CL-ML)
					<u></u>			

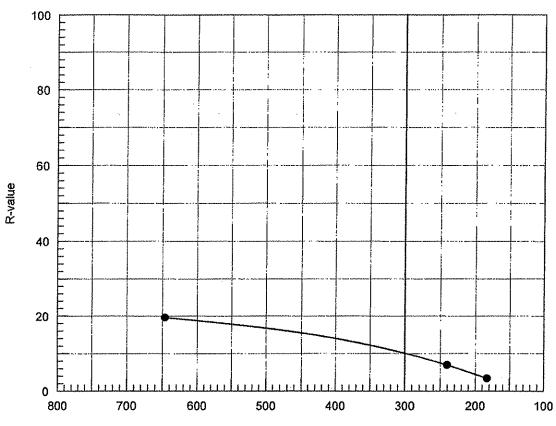
PLASTICITY CHART

Figure A-8

Project: Fire Station #36

28649866





Exudation Pressure - psi

# Resistance R-Value and Expansion Pressure - Cal Test 301

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	20	114.4	16.3	0.00	150	2.50	183	3	3
2	35	118.7	14.6	0.00	141	2.36	240	8	7
3	145	122.8	12.9	0.09	117	2.49	646	20	20

Test Results	Material Description
R-value at 300 psi exudation pressure = 10	Brown gravelly sandy silt
Project No.: 28649866.00002	Tested by:
Project:Fire Station #36	Checked by:
Source of Sample: B-2	Remarks:
Date: 7/3/2007	
R-VALUE TEST REPORT	
SIGNET TESTING LABS, INC.	Figure A-9